



Job Title: Laser Systems Engineer
Job Code: RS.09.LSE
Reports to: VP of Engineering (Richard Sharp)

Overview:

A minimum of 10 years' experience beyond school in the telecommunications or laser industry is required for this position, with a concentration in semiconductor laser and optics packaging. Applicants must possess deep knowledge in optical elements and assemblies of semiconductor laser systems, including opto-mechanics, laser packaging and electronic interfaces. The ideal candidate will have extensive experience with external cavity solid state laser systems, and exceptional assembly and test skills.

Summary:

We are seeking an exceptional design or systems engineer who will assuming a leadership role in the development and manufacture of laser modules and associated electronics for OEM applications (note: the position does not require knowledge or experience in the design or manufacture of the semiconductor laser chips). This position will be in a fast paced, multi-project environment where one can make an immediate impact on product design. The position is based in Burlington, MA, USA.

Requirements / Education:

- Advanced degree in Physics, Optics, Photonics or a related field
- 10+ years of experience in the design and development of semiconductor based laser modules.
- Experience in quantum cascade lasers or external cavity lasers strongly preferred.
- Excellent understanding of electro-optic packaging of semiconductor lasers. Skilled in leading design efforts requiring environmental and thermal analysis, and temperature control.
- Familiarity with optical design and modeling, laser resonator design, and beam propagation proficiency.
- Zemax optical design and/or SolidWorks thermal packaging skills strongly preferred, but at a minimum an ability to lead the opto-mechanical design activity.
- Proven ability in problem solving in the operation, control, and integration and manufacturing of laser based products.
- Proven ability in developing products for manufacturability, serviceability, and long-term reliability.
- Ability to specify and lead the development of manufacturing test and assembly fixtures and software

- Experience in preparing the final documentation for new product releases into manufacturing, including bills of materials, work instructions, test procedures, data sheets, and ECO's.
- Experience in performing the design verification and qualification tests of laser assemblies and supporting systems.
- Strong interpersonal, oral and written communication skills are essential.
- Resourceful and flexible, and willing to work hands-on in developing novel technologies and executing program deliverables.
- Strong team player, both within engineering as well as with our business teams.
- Adept at planning, prioritizing, multi-tasking, organizing and following through, while remaining highly energetic and focused.
- Unrestricted right to work in the United States

About RedShift BioAnalytics:

RedShift BioAnalytics is developing powerful new analytical tools for the R&D, life science and biopharmaceutical markets. Our measurement solutions combine tunable lasers, microfluidics, and analytical technologies to achieve revolutionary improvements in performance, efficiency and analytical capabilities. At RedShift, we provide customers with solutions that accelerate product discovery, development and manufacturing while enabling dramatic improvements in performance, efficiency and cost.

We have developed major partnerships with industry leaders, attracted top talent to our executive and engineering teams, and received strategic and venture funding to support our product introductions. Our team members are innovators who are creating one of the most promising technology start-ups in the Boston area.

This position is open for immediate hire. The company provides very competitive salaries as well as a full benefit plan including medical, dental and 401(k) savings.

To apply, please send a cover letter and resume referencing the job title to:
careers@RedshiftBio.com.

WE ARE AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER. RedShift BioAnalytics affords equal employment opportunity to all qualified persons regardless of race, color, religious creed, national origin, age, military status, sexual orientation, disability, genetic information, gender identity, gender expression or gender unless based upon a bona fide occupational qualification. Please view Equal Employment Opportunity Posters provided by OFCCP [here](#).